

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P234046

Luminaire Tested: **VERD-C013-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C013-D-U-T4-7030-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 560mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3001 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

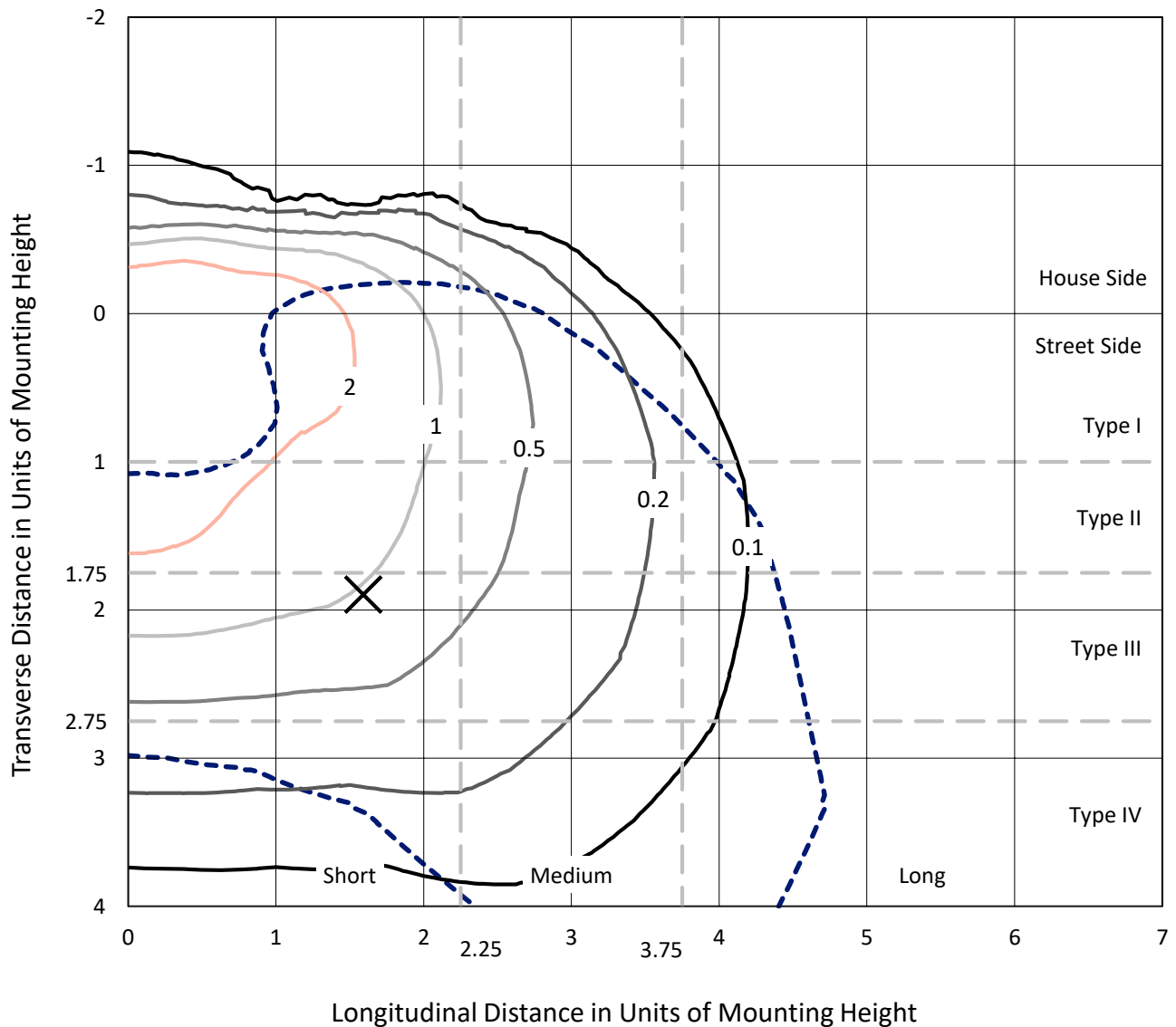
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P234046  
 CATALOG NUMBER: VERD-C013-D-U-T4-7030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

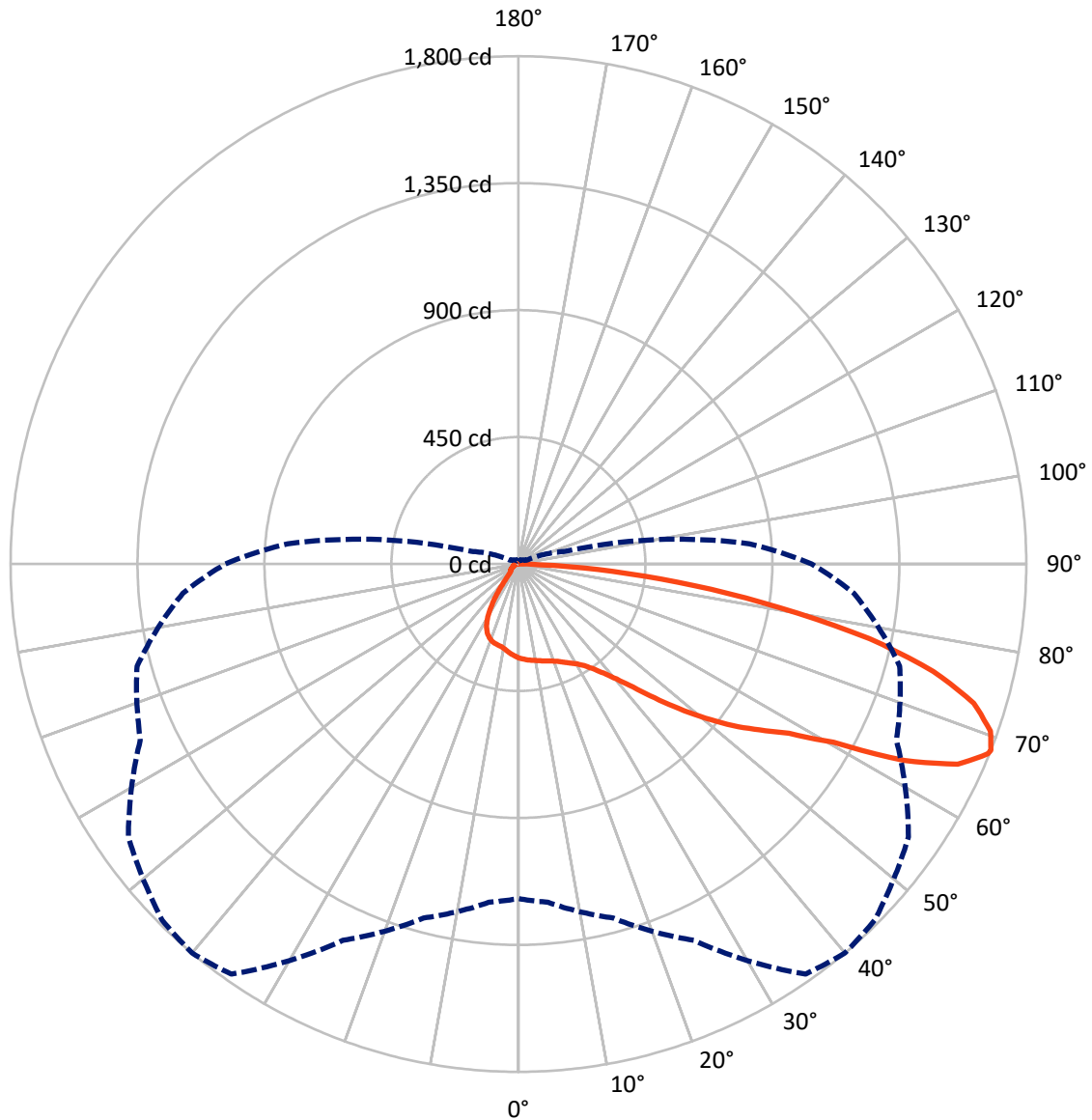
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P234046  
CATALOG NUMBER: VERD-C013-D-U-T4-7030-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P234046

CATALOG NUMBER: VERD-C013-D-U-T4-7030-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	486.8	0.0	486.8
	% Fixture	16.2	0.0	16.2
<b>Street Side</b>	Lumens	2514.2	0.0	2514.2
	% Fixture	83.8	0.0	83.8
<b>Total</b>	Lumens	3001.0	0.0	3001.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.6	1.1
10°-20°	94.8	3.2
20°-30°	159.0	5.3
30°-40°	235.5	7.8
40°-50°	398.4	13.3
50°-60°	608.1	20.3
60°-70°	796.2	26.5
70°-80°	572.5	19.1
80°-90°	104.8	3.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3001.0	100.0
0°-180°	3001.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P234046

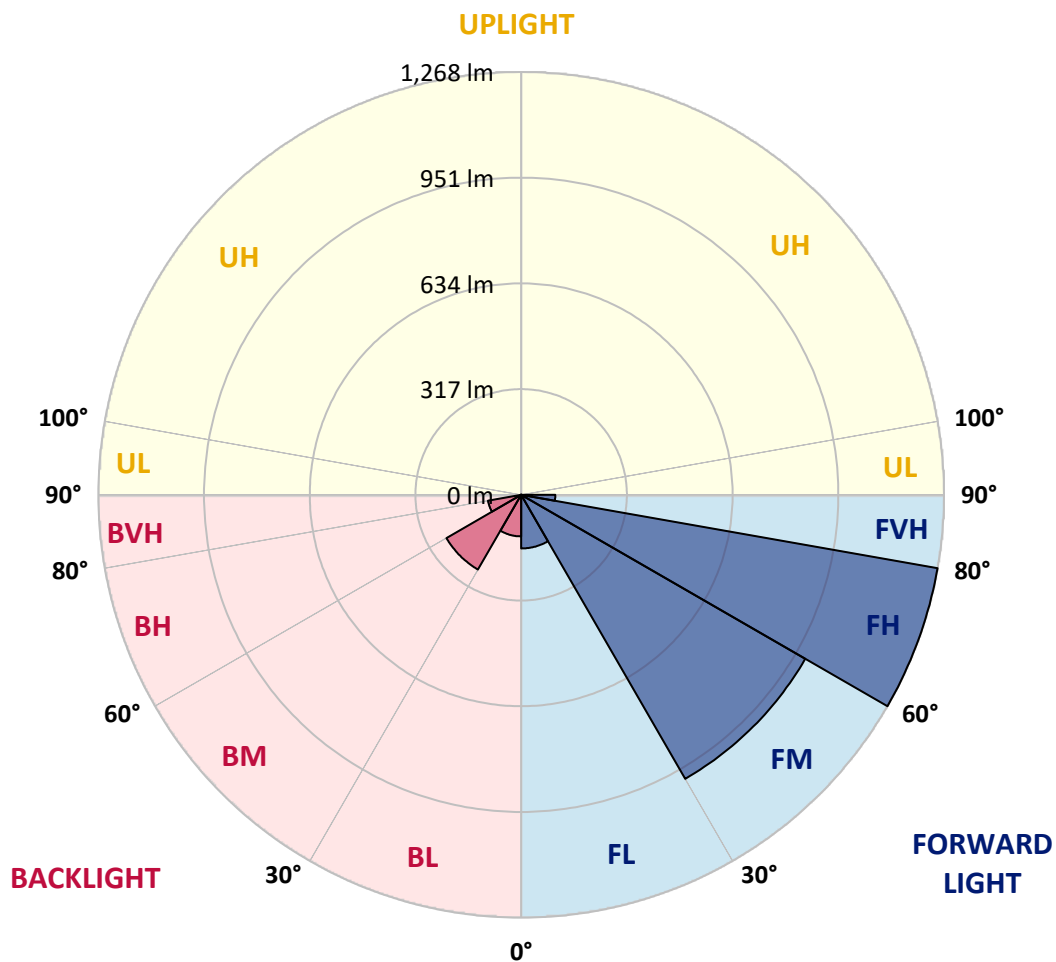
CATALOG NUMBER: VERD-C013-D-U-T4-7030-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.9	5.4			
FM	(30°-60°)	983.3	32.8			
FH	(60°-80°)	1267.7	42.2			G1/1800
FVH	(80°-90°)	102.3	3.4			G2/225
BL	(0°-30°)	124.6	4.2	B1/500		
BM	(30°-60°)	258.7	8.6	B1/1000		
BH	(60°-80°)	101.0	3.4	B0/110		G0/110
BVH	(80°-90°)	2.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P234046

CATALOG NUMBER: VERD-C013-D-U-T4-7030-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5
2.5°	344.0	344.8	343.8	341.3	338.5	337.0	336.7	336.5	335.2	333.5	331.0
5°	347.5	347.8	346.8	344.8	342.3	341.8	341.0	341.3	340.5	338.7	336.0
7.5°	349.0	349.6	348.3	346.3	344.3	344.3	344.0	344.8	344.3	343.5	340.3
10°	348.5	349.3	348.5	347.8	347.0	347.8	347.3	349.0	349.3	349.3	345.5
12.5°	347.8	348.8	349.0	349.8	351.1	351.8	352.8	356.6	358.3	359.6	356.6
15°	348.5	349.0	351.1	352.3	354.8	356.6	358.8	365.1	368.1	371.7	370.2
17.5°	351.8	353.1	356.1	357.3	359.9	361.1	363.9	371.7	377.7	384.0	385.0
20°	358.8	359.6	364.6	365.1	366.4	367.6	370.7	379.2	388.3	397.3	399.8
22.5°	366.6	368.4	373.2	372.4	374.9	375.4	378.2	387.5	400.1	411.1	416.6
25°	374.7	376.2	381.0	381.5	384.5	386.5	389.8	398.8	414.9	429.0	438.8
27.5°	381.5	384.5	389.0	389.5	395.3	397.8	402.6	412.9	432.2	449.6	465.7
30°	394.0	394.8	399.1	400.6	408.4	410.6	416.1	429.2	452.8	474.4	499.6
32.5°	409.6	409.4	413.4	415.9	425.4	429.5	436.5	451.6	477.7	504.6	540.3
35°	438.3	435.7	438.3	440.8	451.8	456.1	463.6	486.3	516.9	562.7	606.6
37.5°	504.1	500.3	495.1	482.5	485.3	490.8	501.8	532.5	577.7	662.7	705.1
40°	618.2	609.9	587.8	554.6	535.0	535.5	545.8	586.0	652.4	777.3	809.2
42.5°	721.5	715.7	689.1	643.6	598.3	595.8	599.3	646.3	733.8	883.6	900.1
45°	818.7	821.5	782.8	747.1	693.1	676.5	672.2	710.7	824.0	978.3	979.8
47.5°	908.7	913.2	866.5	832.8	779.5	765.2	751.9	778.3	909.2	1059.0	1046.6
50°	1005.4	1009.0	944.1	916.5	871.7	858.4	848.4	859.9	996.4	1133.8	1106.2
52.5°	1139.1	1119.5	1038.1	992.4	952.7	951.7	943.9	951.2	1095.6	1201.2	1151.4
55°	1296.9	1245.7	1159.2	1086.1	1035.1	1037.9	1028.6	1040.6	1193.9	1259.0	1193.4
57.5°	1352.7	1351.5	1311.3	1241.1	1137.6	1131.3	1115.2	1128.8	1278.8	1313.0	1223.1
60°	1430.1	1436.9	1441.4	1399.2	1339.4	1282.4	1228.6	1227.3	1358.0	1362.3	1237.6
62.5°	1480.1	1486.4	1521.6	1516.1	1553.0	1534.2	1472.8	1336.9	1418.6	1394.2	1243.2
65°	1386.6	1402.2	1490.9	1558.5	1684.4	1710.8	1702.0	1505.3	1459.8	1403.5	1232.9
67.5°	1217.5	1237.9	1335.1	1493.2	1765.9	1795.3	1779.2	1674.9	1477.6	1399.5	1204.5
68°	1185.9	1203.5	1298.9	1471.3	1774.1	1799.8	1785.2	1687.4	1478.4	1399.0	1193.7
70°	1033.6	1047.9	1141.1	1359.3	1751.0	1774.9	1772.9	1699.3	1471.8	1383.4	1121.0
72.5°	801.9	816.2	898.9	1127.3	1644.2	1688.0	1686.2	1652.0	1459.8	1304.0	939.8
75°	579.7	595.6	671.0	866.2	1422.8	1519.1	1538.4	1571.1	1334.4	1097.4	668.7
77.5°	418.7	430.2	495.3	654.4	1162.2	1272.3	1311.5	1344.4	1092.1	799.9	318.1
80°	279.2	287.5	350.3	486.5	875.5	940.3	982.6	927.5	621.5	289.2	34.4
82.5°	171.9	177.2	226.7	341.3	605.6	626.0	626.2	494.8	200.3	27.6	18.6
85°	92.2	94.0	123.1	186.2	319.9	335.2	329.2	207.8	40.5	14.8	10.1
87.5°	14.8	16.1	38.7	69.9	98.8	76.1	48.8	15.3	4.0	2.3	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P234046

CATALOG NUMBER: VERD-C013-D-U-T4-7030-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5
2.5°	332.2	331.5	329.4	328.4	325.9	326.7	326.7	324.7	325.7	329.7	329.2
5°	335.2	335.5	330.7	328.2	322.7	321.2	318.9	315.9	315.6	318.4	318.6
7.5°	337.7	339.0	332.2	327.2	319.6	314.4	309.8	304.6	303.3	305.1	305.1
10°	341.8	343.0	334.5	327.4	316.4	307.8	300.0	293.3	290.5	290.5	290.7
12.5°	352.3	351.6	341.8	331.0	317.9	304.3	292.0	283.0	276.4	276.2	275.2
15°	366.9	364.1	354.6	338.2	321.4	304.1	287.0	272.9	261.6	258.6	257.3
17.5°	382.5	379.0	367.4	347.5	326.9	303.8	281.2	261.6	242.8	235.5	233.2
20°	399.3	395.0	383.2	358.3	332.5	302.1	272.7	245.3	219.6	205.8	202.3
22.5°	417.9	414.4	400.1	369.4	336.2	298.3	259.3	224.7	192.0	172.1	170.6
25°	442.0	438.8	417.7	379.2	336.5	291.3	241.7	198.3	157.3	133.9	129.2
27.5°	470.9	465.1	431.7	385.2	332.5	278.9	218.9	163.1	116.9	97.3	96.7
30°	502.3	491.8	443.0	386.7	323.4	259.3	187.5	119.9	82.9	69.6	69.6
32.5°	539.3	519.9	454.6	384.2	308.6	232.2	143.5	83.2	57.0	50.8	50.8
35°	593.3	563.4	469.4	377.9	287.7	194.8	102.0	55.0	45.0	44.2	44.2
37.5°	678.7	629.0	489.5	367.4	259.1	148.5	66.3	42.5	43.0	43.0	42.7
40°	769.7	704.9	517.2	350.6	223.2	102.5	43.5	40.2	41.0	41.5	41.2
42.5°	851.9	777.0	547.3	327.9	180.7	64.6	39.7	38.7	38.2	38.7	39.0
45°	923.0	839.6	577.7	298.5	133.4	42.2	38.7	36.4	34.9	35.2	35.4
47.5°	983.8	888.8	598.3	267.6	88.5	37.4	37.4	33.4	31.9	31.9	31.9
50°	1037.1	932.6	610.9	230.7	52.8	36.9	35.2	30.7	29.2	28.9	29.2
52.5°	1075.8	963.2	609.4	185.7	35.4	35.7	32.2	28.1	26.4	26.9	27.1
55°	1106.5	982.6	596.1	136.0	33.2	33.4	29.9	25.4	24.1	24.4	24.4
57.5°	1125.8	987.3	568.9	88.5	32.4	29.9	26.9	22.6	21.1	21.1	21.1
60°	1132.1	984.8	532.0	56.5	32.2	26.9	24.4	20.4	18.8	18.8	18.8
62.5°	1126.8	970.3	469.4	40.7	29.9	25.1	22.1	18.1	16.6	16.1	16.1
65°	1108.0	931.3	361.9	33.7	26.9	23.1	20.1	16.3	14.3	13.6	13.3
67.5°	1052.9	846.9	210.6	31.7	24.4	21.1	18.6	14.8	12.6	11.3	11.1
68°	1038.6	821.7	173.1	31.4	24.4	20.9	18.3	14.3	12.1	10.8	10.6
70°	936.1	662.9	49.8	29.9	23.9	20.1	16.8	13.1	10.8	9.3	9.0
72.5°	704.9	388.5	31.2	26.6	23.6	17.8	16.3	13.1	9.5	8.0	7.5
75°	393.5	88.5	26.4	19.9	22.1	17.6	16.1	11.8	8.5	6.5	6.3
77.5°	80.9	25.6	22.6	13.8	16.8	15.3	13.6	10.1	7.8	5.0	4.8
80°	22.9	19.1	20.1	10.1	9.5	10.8	10.1	8.8	5.8	3.8	3.8
82.5°	14.8	14.1	18.1	6.8	5.0	5.0	6.5	5.3	5.0	3.0	3.0
85°	9.0	11.8	8.8	3.0	2.5	2.0	2.3	2.3	3.0	2.0	2.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.0	0.8	0.8	0.8	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)